

XpressQuant Mouse IgG test strip

The XpressQuant Mouse IgG Test Strip is a novel combo lateral flow assay designed for the rapid detection and semi-quantitative measurement of both mouse IgG and mouse IgG Fc-fusion proteins. The assay features a simple workflow and can be completed within 5 minutes without the need for any instruments. The test strip can be applied directly to unpurified samples in cell lysis buffer or cell culture medium, with or without FBS. It is also compatible with samples prepared in common buffers such as PBS, Tris, and HEPES.

The XpressQuant Mouse IgG Test Strip detects all mouse IgG subtypes, including IgG1, IgG2a, IgG2b, IgG2c, and IgG3, with a sensitivity of 0.1 µg/mL. The quantitative range extends from the detection limit up to 5 mg/mL. Unlike traditional sandwich lateral flow assays, this test is not affected by the hook effect and does not produce false-negative results in samples with high analyte concentrations. By comparing the line pattern with the reference images provided in the protocol, the sample concentration can be semi-quantitatively determined by simple visual inspection with the naked eye.

XpressQuant is a patent-pending technology and represents a first-of-its-kind lateral flow platform that enables quantitative measurement of analyte concentrations with unprecedented ease and speed.

Contents and Storage

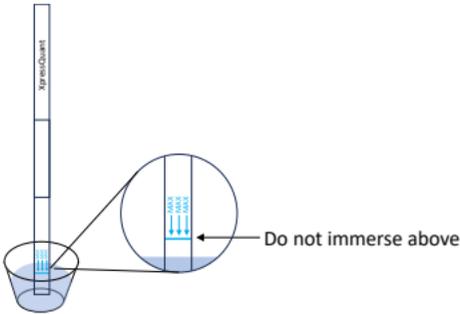
CATALOG NUMBER	UNIT	STORAGE
XQ-mIgG-25	25	Room temperature Keep dry
XQ-mIgG-100	100	Room temperature Keep dry

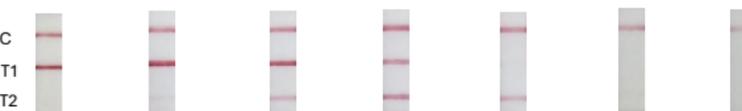
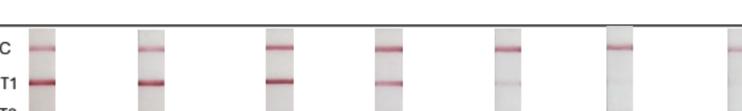
Precautions

1. There are three lines on the strip: the control line (C), test line 1 (T1), and test line 2 (T2). The C line is the uppermost line and is located approximately 42 mm from the bottom of the strip. The T1 line is the middle line and is located approximately 38 mm from the bottom of the strip. The T2 line is the lowest line and is located approximately 34 mm from the bottom of the strip.
2. The line patterns shown in the protocol were read after 5 minutes. Reading the results at a later time may increase the assay sensitivity. The line pattern remains stable for at least 3 hours; however, the line color may gradually fade.
3. Results for each mouse IgG subtype are provided in this manual. Although the sensitivity is similar among subtypes, the line patterns may differ at certain concentrations. Users should therefore compare results with the reference images corresponding to the same IgG isotype.
4. This product can also be used to detect mouse IgG Fc-fused proteins. The concentration of mouse IgG Fc-fused proteins should be calculated according to the molecular weight of the fusion protein.
5. For more accurate measurements, standard samples with known concentrations of the same protein in the same matrix can be used to first generate reference line patterns. The sample results can then be compared with these reference patterns.

[Refer to the back for detailed test procedure instructions](#)

Test Procedure

Step	Description	Illustration																
1	<p>Add 100 μL sample to a well (e.g. a well of a 96-well plate) or a vial.</p> <p>(Dilute the sample with a buffer (e.g. PBS) if desired.)</p>																	
2	<p>Put the test strip into the vial, with the arrow label side immersed in the sample.</p>																	
3	<p>Wait 5 minutes until the control line is clear</p>																	
4	<p>Read the result by comparing to the images below</p>																	
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